

MINING

OHIO COPPER.

Salt Lake City.—For the first time since the first unit of the new mill at Park of the Ohio Copper Company has placed in commission, some figures on the work done have been secured. This unit is treating between 50 and 500 tons of ore a day, and it is running without a hitch anywhere outside of adjustments of minor character whenever experience demonstrates their necessity. The value of the ore treated has not been given out, nor has the management deemed it fair under the circumstances to give the figures of saving, etc.

It is known, however, that the concentrates are running 24 per cent copper, and that the percentage of silica contained is very low. The latter item counts for much when it comes to marketing the product. Pending the arrival of missing electrical equipment from the East, the mill management may rig up a temporary outfit so as to throw the second unit into action early in January. These missing parts long ago were reported as being en route, and the management at the mill afterward found that the equipment was still concealed somewhere on the premises of the fabricator.

CHIEF CONSOLIDATED.

Salt Lake City, Utah.—The city of Eureka, Utah, the center of the Tintic district, has decided by ordinance exclusive ownership of all the mineral rights beneath the city to the Chief Consolidated company, the consideration being in the vicinity of \$10,000. It never was thought that there was much in a mineral vein beneath the city, but Walter Fitch, general manager of the Chief, demonstrated that there was, and the result has been a decided windfall to the town of Eureka, while the Chief company acquires mineral rights of great importance. The company now owns 400 acres of mineral territory in the heart of the Tintic district, there being 4,000 feet along the mineralized zone within its property boundary lines.

Splendid results are attending the work in the Chief at depth. On the 1,600 level, the company has drifted for 650 feet in search of the ore zone, and a branch drift recently was started from this to get in under the ore known to exist on the 1,400 level. Although the face of this branch is hardly within supposed striking distance of the zone, it has broken into a heavily mineralized country, the breast being filled with iron and manganese, which is a decidedly healthy sign in Tintic. It is thought certain that this drift will be in ore by the first of the year.

The management anticipates shortly to resume shaft sinking, and the main shaft will be sent from the 1,675 level to the 1,800, where a station will be cut and exploring started at that depth. Sinking has been neglected for the past few months on account of the limited hoisting capacity, the officials desiring to push the work on the 1,600 and upper levels. During the month of November, the Chief Consolidated company shipped ore of a net valuation of \$15,018.

GAY & STURGIS GOSSIP.

Calumet, Mich., Dec. 31.—There was not very much doing in the Boston list. Miami was the feature, advancing to 23 1/2 on large volume of trading. Most stocks closed at slightly higher prices than the opening.

In the curb list Keating was the feature, advancing sharply with sales as high as 3 registered, with slight decline near the close.

Cactus, Chief, New Keystone, Oneco and Yuma were also in fair demand. The balance of the list was rather quiet.

We wish to extend to our friends and patrons our best wishes for a happy and prosperous New Year.

To all owners of Keating—I understand overtures for purchase of 64,000 shares of this stock have been made for Senator Clark by Mr. Root. The largest individual owners of Keating are Messrs. Barnes, Ames, Peyton and myself. We are agreed not to sell unless same price is extended to all our friends who have purchased stock on our advice. I sincerely hope that my friends whom I have influenced to buy this stock will not part with same if Senator Clark endeavors to buy this amount in open market. He needs this

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STOCKS

Boston.—Foster says: Miami was the strongest and the most active specialty in the Boston market today. The buying of this stock comes chiefly from New York and it looks now as if it would easily cross 30. Higher prices for the metal is attracting attention to Copper Range and the conservative traders are picking up all the stock they can get around this level without making any attempt to advance the price. The balance of the list was quiet and showed little change but everyone feels confident that the speculative position of coppers was never better and that the present upward trend will continue throughout a large part of 1910.—Paine, Webber & Co.

Gay & Sturgis says: New York, Dec. 31.—The flurry in call money yesterday apparently had no effect on sentiment here as it is generally felt that nothing serious will develop in the money market. Interest rates all over the street will be from 1/4 to 1/2 per cent higher than they were last month. This is owing to the fact that the call rate has remained persistently around 5 1/2 per cent and that time money for any reasonable maturities did not weaken in price until the last ten days of the month. Personally I feel that sometime in January we will get very easy money and also a shakeout in the market.

Bull tips are still out on Cons, Gas, Wabash, Union Pacific and Southern Pacific. Interest in copper shares seems to be materially reviving. As this is the last day of the year there will probably be more or less evening up of contracts. I shall think that on all very strong spots stocks should be sold.—J. W. P.

BOSTON STOCKS.

(Paine, Webber & Co.)

Amal.	90	90 1/2
Adventure	6 1/2	7
Alouex	56	58
Atlantic	11 1/2	12
Ariz. Cons.	50 1/2	50 3/4
Boston Cor.	23 1/2	23 3/4
Boston Cons.	22	22 1/2
C. & A.	102	103
C. & H.	180	180 1/2
Continental	38	38 1/2
Coalition	28 1/2	28 3/4
Copper Range	84 1/2	85
Daily West	9	9 1/2
East Butte	13 1/2	13 3/4
Franklin	18 1/2	18 3/4
Giloux	11 1/2	11 3/4
Granby	110	110 1/2
Greene Can.	11 1/2	11 3/4
Hancock	34	34 1/2
Helvetia	5 1/2	5 3/4
Isle Royale	28	28 1/2
Kerr Lake	9	9 1/2
Keeweenaw	68 1/2	69
Lake	72 1/2	73
La Salle	18	18 1/2
Mass.	6 1/2	7
Miami	28	28 1/2
Michigan	7 1/2	7 3/4
Mohawk	68 1/2	69
Nevada	26 1/2	27
Nipissing	10 1/2	10 3/4
North Butte	49 1/2	50
North Lake	8	8 1/2
Ojibway	11	11 1/2
Old Dom.	55	55 1/2
Oscoda	163	164
Parrot	20 1/2	21
Quincy	90 1/2	91
Shannon	17 1/2	17 3/4
Sup. & Pitts.	16 1/2	16 3/4
Sup. & Boston	17	17 1/2
Sup. Copper	65 1/2	66
Tamarack	67	70
Utah Copper	60 1/2	61 1/2
Utah Cons.	45 1/2	46
Victoria	4 1/2	4 3/4
Winona	12 1/2	13
Wyandot	2 1/2	2 3/4
Wolverine	148	150

NEW YORK STOCKS.

Gay & Sturgis furnish the following New York quotations:

	Open	Close
Illinois Central	147 1/2	147 3/4
Amalgamated	90 1/2	90 3/4
Amalgamated	53 1/2	54 1/4
Locomotive	61 1/2	61 3/4
Smelters	104	104 1/2
Atchafalaya	122 1/2	123
B. & O.	118 1/2	119
Brooklyn Rapid Transit	90 1/2	91
Colorado Fuel	50 1/2	50 3/4
Erie	33 1/2	34
American Exp. Fndry.	72	72 1/2
Great Northern Pfd.	143 1/2	144
L. & N.	157 1/2	158
Missouri Pacific	72	72 1/2
New York Central	125 1/2	126
Cons. Gas	159 1/2	160
North Pacific	145 1/2	146
Penta	137 1/2	138
Reading	170 1/2	171
C. & O.	89	89 1/2
Rock Island	53 1/2	54
Tenn. Copper	40 1/2	40 3/4
St. Paul	158 1/2	159

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DURING THE HOLIDAYS

AT

BEN BLUM'S

Cor. Fifth and Pine Sts.

So. Pacific	135 1/2	136
Western Union	77	77
U. S. Steel	91 1/2	92
Can. Pacific	181 1/2	182
Steel pfd.	125 1/2	126
Union Pacific	204	204 1/2

UNLISTED STOCKS.

J. A. Minnear & Co. say today: On the eve of New Year's the stock market closed in excellent shape. Prices showed a higher range in final trading, and indications point strongly to an extremely active market next month with the tendency upward. The most hopeful feeling exists. Lake copper was reported to have been sold at 14 1/2 cents per pound, the highest point for the year. Producers look for even better prices during the next three months. The Boston market was fairly active all day though quotations covered a narrow range. The New York list was fractionally higher. New Keystone was a feature today, selling up to 5 1/2. Keating also was a big trader, advancing to 2 1/2 and then broke to 2 1/4. There is steady buying in S. & G. and Yuma, and higher prices are freely predicted for both issues. Calumet-Corbin was in big demand as was Calumet & Montana. Further advances are promised for both issues. We look for a continuation of the present curb market activity and believe that the next two weeks will show a much higher level of prices. We extend to our friends the season's greetings and with this the wishes for a happy and prosperous new year.

(J. A. Minnear & Co.)

	Bid	Ask
Arizona & Michigan	40	42
Alouex	210	225
American	2 1/2	3
Black Mountain	50	75
Butte & London	25	30
Butte Balak	10 1/2	11
Chemung	15	16
Col. Cons.	14 1/2	15
Chief Cons.	2 1/2	3
Cumberland Ely	8 1/2	9
China	12 1/2	12 3/4
Calumet & Montana	1 1/2	1 3/4
Calumet & Montana	2	2 1/4
Calumet Copper	8 1/2	8 3/4
Cactus	6 1/2	6 3/4
Denn Arizona	4	4 1/2
New Baltic	12	13
Ely Central	1 1/2	2
New Keystone	5 1/2	5 3/4
Goldfield Cons.	8	8 1/2
Gila	10 1/2	11
Giloux	11 1/2	11 3/4
Globe Cons.	3 1/2	3 3/4
Honestake	80	85
Hermosa	5 1/2	5 3/4
Helvetia	5 1/2	5 3/4
Hancock	34	34 1/2
Indiana	7 1/2	8
Inspiration	9 1/2	9 3/4
Keeweenaw	68 1/2	69
La Rose	14 1/2	15
Lake Copper	28	28 1/2
L. S. & A.	23 1/2	24
Lake Oak	27 1/2	28
Miami	28	28 1/2
Montana Clinton	45	50
Nipissing	10 1/2	10 3/4
North Lake	8	8 1/2
Ojibway	11	11 1/2
Oneco	68 1/2	69
Ray Cons.	26 1/2	27
Sierra	3 1/2	3 3/4
Shattuck	22 1/2	23
Santa Romula	2 1/2	2 3/4
Superior & Biobe	117	125
Superior & Boston	16 1/2	17
Superior & Pittsburg	16 1/2	16 3/4
South Columbus	12	12 1/2
Tuolumne	3 1/2	3 3/4
Tonopah	7 1/2	7 3/4
Wolverine & Arizona	85	85 1/2
Yuma	2	2 1/4
Keating	2 1/2	2 3/4

INK THAT THE ROMANS USED

For Writing Permanent Records—Stylus and Wooden Tablets Were Then in Vogue.

The ancient Romans commonly wrote with a metal point (stylus) on wooden tablets covered with wax (taulae), but permanent records were written on parchment with a reed pen and liquid pigment, or ink. At Haltem in Westphalia, near the site of the Alamo fortress erected by Drusus in the year 11 B. C., was recently found a bronze vessel containing a dried black mass, which Prof. Kessner has decided to be Roman ink. The mass was found to consist chiefly of soot and tannate of iron. It also contained smaller quantities of ferric oxide, copper oxide, clay, magnesia, gypsum, phosphoric acid, carbonic acid, alkalies and sand. These ingredients probably represent chiefly accidental impurities which have found their way into the old inkstand, but some of them

may be due to the chemical action of the ink on the bronze vessel.

The presence of an aromatic substance suggests that the ink was imported from Italy, where the use of perfumed ink was common.—Scientific American.

CAT AND RAT ARE CRONIES

Eat, Sleep and Play Together—Pussy Defends Her Protege from Active Enemies.

An intimate friendship between a pet white rat and a big cat is reported by a correspondent of St. Nicholas. When the white rat was about two months old by accident a stray cat was allowed to enter the room. It was immediately expected that pussy would devour the rat.

But there was great surprise when the rat instead of showing fright and running away ran toward the cat and nestled itself under the cat's warm breast. The cat is apparently as fond of this white rat as she would be of her own kittens.

When they are fed they are given pieces of meat cut in strings. Each one gets hold of a string at either end and they try to see which can eat the most of it. The cat usually wins because she is the stronger.

If the white rat is missing the cat hunts first in the wicker basket in which they sleep together and then in every nook and corner and sometimes in the cellar or attic until she finds the rat.

Pussy and the white rat have been together now for a little over a year, and the cat is thoroughly responsible for this, for when stray cats come around to the back door she jumps out of her corner, shows fight and chases them.

Sheriff's Talk Taken to Heart.

An extraordinary scene occurred at the county jail of Dutchess county, N. Y., the other morning, when the retiring sheriff broke all precedents by delivering a farewell speech to the prisoners. "Boys," he said, "you're too fine a lot to be in here. Most of you came here through drink. Cut it out. Be decent. We all make mistakes. You have made them and so have I. Don't make the same mistake twice. That's the point. Make up your minds to be right and stick to it. Everybody will respect you then. Behave as well outside as you do inside and nobody will have any kick coming. Have a banana and a cigar with me." All the prisoners came up and shook hands with the sheriff. Some of them were crying and many promised they would try and reform.

Hudson's Humor.

The Half-Moon had passed several tugs pulling a half-dozen coal barges up the river. Hudson, after viewing them through his glass, came down from the bridge.

"Well, Vanderdonckenhuiserstein," he remarked with a twinkle in his eye, "I think we will soon be in sight of the foot of the river."

"Why so, commodore?" asked the mate, unsuspecting.

"I have just observed several large towns on the starboard side," said the great explorer.

Whereupon the mate, with a scowling visage, opened a fresh jug of schnapps.

Achilles Confesses.

The doctor had informed Achilles that his wound was not at all serious. "It's only in your heel, general," said he. "You may limp a little for a while, but—"

"No, doctor," moaned Achilles. "It is all up with me. I am mortally wounded."

"Nonsense," said the doctor. "Why there are no vital organs in your feet."

"There were in mine, doctor," wept the soldier. "Ever since this dinged old scrap began I've been going around with my heart in my boots."

Whereupon he turned over and expired.

Taking Care of the Flowers.

One young woman who loves flowers and keeps them about in profusion says that she devotes one morning weekly to washing out the vases with hot soda water, made very strong. After each vase has stood filled with this cleansing fluid for fifteen minutes she goes to work with bristle brushes, of which she has a collection, and removes the deposit of the flower stems from every nook and corner. Brown soap and water follow this, and, lastly, two rinsings in clear water. And the drying is done with clean glass towels, followed by a polish with a chamomile skin. The process sounds laborious, but the result repays all effort, for each piece looks like new, and the flowers last much longer because of the cleanliness inside.

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The Market at a Glance

MARKET CLOSED FOR THE YEAR IN GOOD SHAPE.
NEW YORK LIST HIGHER AND BULLISH SENTIMENT PREVAILING.

BOSTON COPPERS STRONG ON THE IMPROVEMENT IN METAL SITUATION.

CURBS VERY ACTIVE WITH BIG BUYING IN NEW KEYSTONE, CHIEF AND SUPERIOR & GLOBE.

WE LOOK FOR HIGHER PRICES NEXT WEEK.

WE WISH OUR FRIENDS A HAPPY AND PROSPEROUS NEW YEAR.

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New Baltic Lode Exploration Certificates

NOTICE IS HEREBY GIVEN, THAT STOCK CERTIFICATES OF THE NEW BALTIC COPPER COMPANY ARE NOW READY FOR ISSUE, AND THAT ALL RECEIPTS OR CERTIFICATES OF THE NEW BALTIC LODE EXPLORATION SHOULD BE SENT TO MR. FRED H. BAIRD, TREASURER, AT 87 MILK STREET, BOSTON, MASS., WHO WILL REDEEM THE SAME UNDER THE AGREEMENT THEREIN CONTAINED, AND WILL ISSUE STOCK CERTIFICATES IN THE NEW BALTIC COPPER COMPANY IN LIEU THEREOF.

Dated, Houghton, Michigan, December 30th, 1909.

James P. Edwards

Wise Rule of Japanese.
Jap children are not allowed to school until after their sixth year.

History's Black Record.
History is little else than a picture of human crimes and misfortunes.—Voltaire.

Naturally.
When a woman finds that she weighs more than 140 pounds she begins to regard all scales with suspicion.

History's Black Record.
History is little else than a picture of human crimes and misfortunes.—Voltaire.

History's Black Record.
History is little else than a picture of human crimes and misfortunes.—Voltaire.

All members of Court Robin Hood No. 6233 A. O. F. are requested to meet in their hall Sunday afternoon at 1 o'clock to attend the funeral of our deceased brother John Chellow.

W. E. Daniels, F. S.

R. Rashleigh, C. R.

NOTICE.

All persons indebted to Obenhoff & Co. are requested to call on Edw. Nelson, 2nd floor Holman block. 45

L. O. O. F. ATTENTION.

Members of Calumet lodge, No. 124 and Hecla lodge, No. 39 are requested